

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|---|------------------|---------|------------------|
| L2 | 36563 | heater and reservoir | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:53 |
| L3 | 394051 | jam or stick or clog | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:53 |
| L4 | 2075 | reservoir adj level | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:53 |
| L5 | 1146 | phase adj change adj ink or (ink\$1stick) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:53 |
| L6 | 3897 | 2 and 3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:50 |
| L7 | 297 | 2 and 4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:50 |
| L8 | 159 | 3 and 4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:50 |
| L9 | 32178 | heater and reservoir | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:50 |

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|-----|--------|------------------------|---|-----|-----|------------------|
| L10 | 341978 | jam or stick or clog | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:50 |
| L11 | 273 | 9 and 4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:52 |
| L12 | 273 | 9 and 4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:51 |
| L13 | 3 | 2 and 3 and 4 and 5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:51 |
| L14 | 159 | 3 and 4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:51 |
| L15 | 3 | 2 and 4 and 5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:51 |
| L16 | 43 | 2 and 3 and 4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:51 |
| L17 | 532789 | jam or stick or clog\$ | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:52 |

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|-----|-------|---|---|-----|-----|------------------|
| L18 | 43 | 2 and 3 and 4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:52 |
| L19 | 3 | 2 and 3 and 4 and 5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:52 |
| L20 | 2433 | (heater and reservoir).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:53 |
| L21 | 14622 | (jam or stick or clog).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:53 |
| L22 | 346 | (reservoir adj level).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:53 |
| L23 | 269 | (phase adj change adj ink or (ink\$1stick)).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:54 |
| L24 | 17 | 20 and 21 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:54 |
| L25 | 0 | 21 adn 22 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:54 |

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| L27 | 1 | 22 and 24 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:55 |
| L28 | 0 | 22 adn 25 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:55 |
| L29 | 1 | 22 and 23 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:55 |
| L30 | 0 | 21 adn 23 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:55 |
| L31 | 4 | 20 and 23 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:55 |
| L32 | 17 | 20 and 24 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:55 |
| L33 | 74 | 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/15 09:56 |
| S3 | 811 | 347/7.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/02 14:30 |

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| S4 | 22 | 347/7.ccls. and stick | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/02 14:30 |
| S5 | 4475 | "347"/\$3.ccls. and (melt or liquify or phase or change) and (stick or solid) and (power or energy) and temperature and (monitor or control) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/02 14:34 |
| S6 | 82 | "347"/7.ccls. and (melt or liquify or phase or change) and (stick or solid) and (power or energy) and temperature and (monitor or control) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/02 14:38 |
| S7 | 7 | "347"/7.ccls. and (melt or liquify or phase adj change) and (stick or solid) and (power or energy) and temperature and (monitor or control) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/02 14:41 |
| S8 | 3 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick adj jam) and (power or energy) and temperature and (monitor or control) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 07:35 |
| S9 | 1681 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid or hot adj melt or melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 07:15 |
| S10 | 11 | "347"/7.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid or hot adj melt or melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/02 14:48 |
| S11 | 1459 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 07:36 |

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| S12 | 1290 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) and ((predetermined or threshold) same ink or liquid) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 07:21 |
| S13 | 885 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid near ink or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) and ((predetermined or threshold) same ink or liquid) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 07:41 |
| S14 | 5 | "347"/\$3.ccls. and ink near stick near jam | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 09:32 |
| S15 | 364 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) and (jam or obstruction or impedance or obstruct) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 07:39 |
| S16 | 1040 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) and (jam or obstruction or impedance or obstruct or blockage or blocking or block) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 07:39 |
| S17 | 676 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid near ink or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) and ((predetermined or threshold) same ink or liquid) and (jam or obstruction or impedance or obstruct or blockage or blocking or block) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 09:01 |

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| S18 | 520 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid near ink or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) and ((predetermined or threshold) same ink) and (jam or obstruction or impedance or obstruct or blockage or blocking or block) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 09:20 |
| S19 | 503 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid near ink or hot adj melt) and (power or energy) and temperature and (monitor or control or interrupt or stop) and ((predetermined or threshold) same ink) and (jam or obstruction or obstruct or blockage or blocking or block) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 09:51 |
| S20 | 64 | "347"/\$3.ccls. and ink near stick same (jam or misfeed or block or blocking or obstruct or obstruction) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/06 09:38 |
| S21 | 340 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid near ink) and (power or energy) and temperature and (monitor or control or interrupt or stop) and ((predetermined or threshold) same ink) and (jam or obstruction or obstruct or blockage or blocking or block) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/12 08:58 |
| S22 | 5 | "5992991" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/12 08:02 |
| S23 | 5 | "6447084" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/12 08:24 |
| S24 | 6 | "347"/\$3.ccls. and (jam same ink same (power or heat or heater or electricity or energy) near (off or halt or stop or stops or halts or quit or cease)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/12 08:29 |

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| S25 | 39 | "347"/\$3.ccls. and ((jam or jamming or clog or clogging or obstruct or obstructing or block or blocking) same ink same (power or heat or heater or electricity or energy) near (off or halt or stop or stops or halts or quit or cease)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/12 08:29 |
| S26 | 297 | "347"/\$3.ccls. and (melt or liquify or phase adj change) and (ink adj stick or solid near ink) and (power or energy) and temperature and (monitor or control or interrupt or stop) and ((predetermined or threshold) same ink) and (jam or obstruction or obstruct or blockage or blocking or block) and (count or pixel or pixels or counter or add) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/12 08:59 |
| S27 | 244 | 347/99 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:31 |
| S28 | 441 | 347/88 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:32 |
| S29 | 442 | 347/6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:32 |
| S30 | 1373 | 347/7 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:32 |
| S31 | 2810 | 347/19 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:32 |
| S32 | 1976 | 347/14 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:32 |

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| S33 | 4982 | S27 S28 S29 S30 S31 S32 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/14 07:33 |
| S34 | 3646078 | power | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/14 07:43 |
| S35 | 3502508 | (off or shut near down) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/14 07:45 |
| S36 | 1535 | S33 S34 S35 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:34 |
| S37 | 245 | S33 (S34 near S35) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:34 |
| S38 | 10 | S33 ((S34 near S35) same (clog\$4 or jam\$4 or obstruct\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:43 |
| S39 | 4706522 | power or electricity or energy | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/14 07:43 |
| S40 | 10 | S33 ((S39 near S35) same (clog\$4 or jam\$4 or obstruct\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:45 |

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| S41 | 4399641 | (off or shut near down or stop or cut near off) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/14 07:45 |
| S42 | 10 | S33 ((S39 near S41) same (clog\$4 or jam\$4 or obstruct\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:46 |
| S43 | 21 | S33 ((S39 near5 S41) same (clog\$4 or jam\$4 or obstruct\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 07:49 |
| S44 | 31 | S33 and (calculat\$5 near5 tim\$4) same (compar\$4) same (predetermin\$4 or threshold or known or expected) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 08:25 |
| S45 | 9 | S33 and (calculat\$5 near5 tim\$4) near4 (compar\$4) same (predetermin\$4 or threshold or known or expected) near4 (calculat\$5 near5 tim\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 08:26 |
| S46 | 5 | "6447084" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 08:39 |
| S47 | 0 | 347/19.ccls. and timing near calculations same comparing near calculated near time | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 08:40 |
| S48 | 0 | 347/19.ccls. and timing near calculations same comparing near calculation | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 08:40 |

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| S49 | 0 | "347"/\$3.ccls. and timing near calculations same comparing near calculation | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2005/09/14 08:40 |
| S50 | 0 | "347"/\$3.ccls. and timing near4 calculation same comparing near4 calculation | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 08:42 |
| S51 | 2 | "347"/\$3.ccls. and timing near4 calculation and comparing near4 calculation | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 08:43 |
| S52 | 11 | "347"/\$3.ccls. and timing near4 calculat\$4 and comparing near4 calculat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 08:55 |
| S53 | 5 | "5992991" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:14 |
| S54 | 0 | (S27 and S28) and (melt or fill or refill or flow) near5 (rate or speed or velocity) near5 (grams or g) near (minute or min or m) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:16 |
| S55 | 18 | "347"/\$3.ccls. and (melt or fill or refill or flow) near5 (rate or speed or velocity) near5 (grams or g) near (minute or min or m) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:20 |
| S56 | 32 | "347"/\$3.ccls. and (inflow or flow or rate) near5 (grams or g) near (minute or min or m) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:23 |

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| S57 | 255 | "347"/\$3.ccls. and (grams or g) near (minute or min or m) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:51 |
| S58 | 0 | "347"/\$3.ccls. and head near starvation same unsafe | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:51 |
| S59 | 1 | "347"/\$3.ccls. and head near ink near starvation same unsafe | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:51 |
| S60 | 1 | "347"/\$3.ccls. and head near4 ink near4 starvation same unsafe | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:51 |
| S61 | 1 | "347"/\$3.ccls. and ink near4 starvation same unsafe | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:52 |
| S62 | 24 | "347"/\$3.ccls. and (unsafe or risk) same (deplet\$4 or starv\$5 or empty) near5 (ink or liquid) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 09:59 |
| S63 | 10 | "347"/\$3.ccls. and (clog\$4 or ink near jam\$4) near9 (power or heat or energy or electricity) near5 (off or shut adj down or terminat\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 10:12 |
| S64 | 1 | "347"/\$3.ccls. and (stop near supply or halt or stop or cut near off or terminate) near6 (heater or energy) same (ink near jam or clog\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 10:17 |

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| S65 | 11 | "347"/\$3.ccls. and (ink near stick near jam) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/15 09:49 |
| S66 | 289 | "347"/\$3.ccls. and (ink near stick) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/09/14 10:17 |